



公司地址：东莞市塘厦镇清湖头三坑工业区1号

东莞市仁丰电子科技有限公司

Dongguan RF Electronic Technology Co., Ltd

电话：0769-38940168 传真：0769-39010966 网址：http://rflink.net.cn

规格书

SPECIFICATION FOR APPROVAL

客户名称

CUSTOMER NAME:

产品名称

PRODUCT NAME: Built-in antenna 2.4G L=100MM + terminals

客户料号

CUSTOMER P/N: VTA AW2410-0019

仁丰料号

RenFeng P/N: U00T02S000N07645 REV:D

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:		
AUDITOR BY:		
APPROVED BY:		
DATE:	2024-12-20	

地址：东莞市塘厦镇清湖头三坑路一号

传真：0769-38940199

Address: No.1, Sanjing Road, Qinghutou,
Tangxia Town, Dongguan City

Fax: 0769-38940199

电话：0769-38940168

网址：www.rflink.net.cn

Phone Call: 0769-38940168

URL: www.rflink.net.cn



公司地址：东莞市塘厦镇清湖头三坑工业区1号

东莞市仁丰电子科技有限公司

Dongguan RF Electronic Technology Co., Ltd

电话：0769-38940168 传真：0769-39010966 网址：http://rflink.net.cn

规格表:

RF Cable Assembly Specification

主要技术指标		Main technical specifications	
频率范围 (MHZ)	2400-2500	Frequency Range (MHZ)	2400-2500
特性阻抗(Ω)	50	Impedance(Ω)	50
输出电压 驻波比	≤ 2.0	VSWR	≤ 2.0
增益 (dBi)	4.33	Peak Gain(dBi)	4.33
天线材料	FR-4	Antenna cover	FR-4
物理性能		Physical Properties	
线材	1.37低损线	Cable	1.37 Cable
连接头	端子	Connector	MHF Plug
保存温度	-20℃~+70℃	Storage Temp	-20℃~+70℃
工作温度	-20℃~+60℃	Operating Temp	-20℃~+60℃

地址：东莞市塘厦镇清湖头三坑路一号

传真：0769--38940199

Address: No.1, Sanjing Road, Qinghutou,
Tangxia Town, Dongguan City

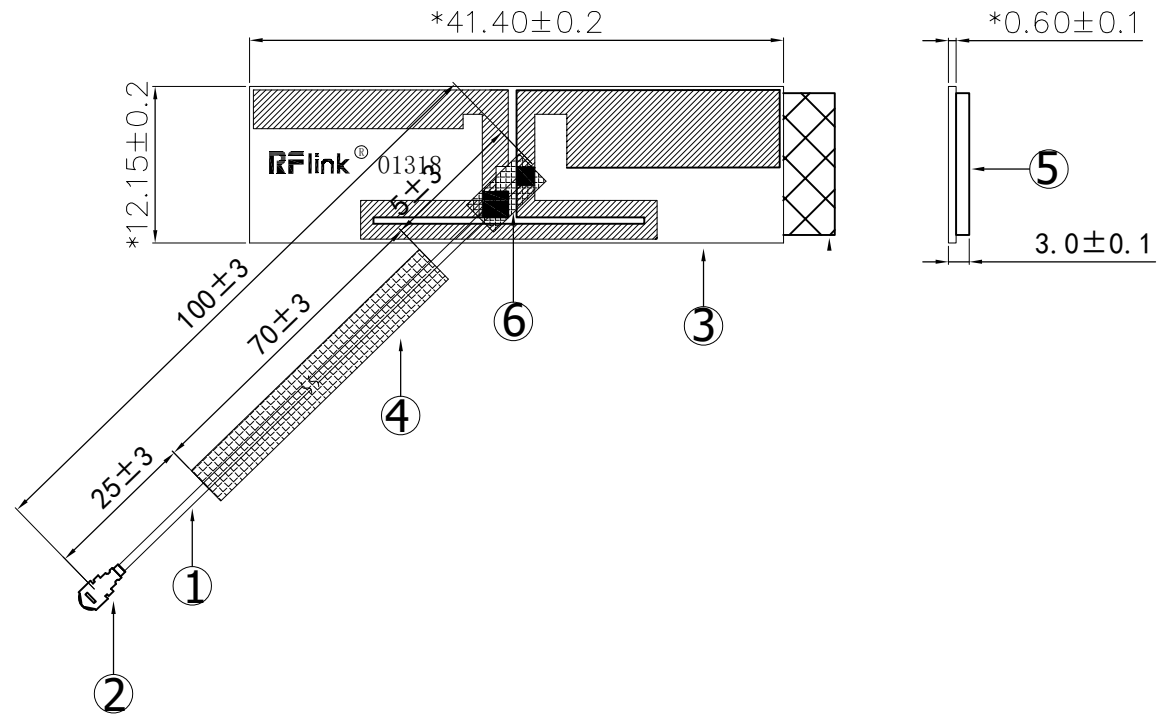
Fax: 0769--38940199

电话：0769--38940168

网址：www.rflink.net.cn

Phone Call: 0769--38940168

URL: www.rflink.net.cn



规格Specification:
频率Frequency Range: 2.4-2.5GHz

APPROVED

COSTOMER:

PART NO : 3010100929

CHECKED

PARTNAME : RF Antenna Assembly

DRAWING

R.F P/NO : U00T02S000N07645

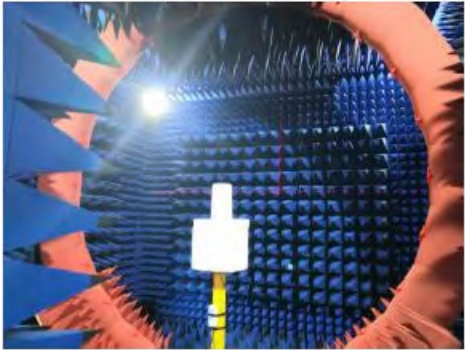
REV	UNIT	SCALE	SIZE	SHEET
	mm	1:1	A4	1OF1

RFlink

东莞市仁丰电子科技有限公司
RenFeng Electronic technology
Co., LTD.

测试设备 (Test Equipment)

◆ 测试设备 (Test Equipment)

设备 (Equipment)	型号 (Type)	照片 (photo)
微波暗室 Microwave anechoic chamber	FTMP-24D (4*4*3.5)	
综合测试仪 (Comprehensive tester)	R&S CMW500	
网络分析仪 (Network Analyzer)	KEYSIGHT E5063A	

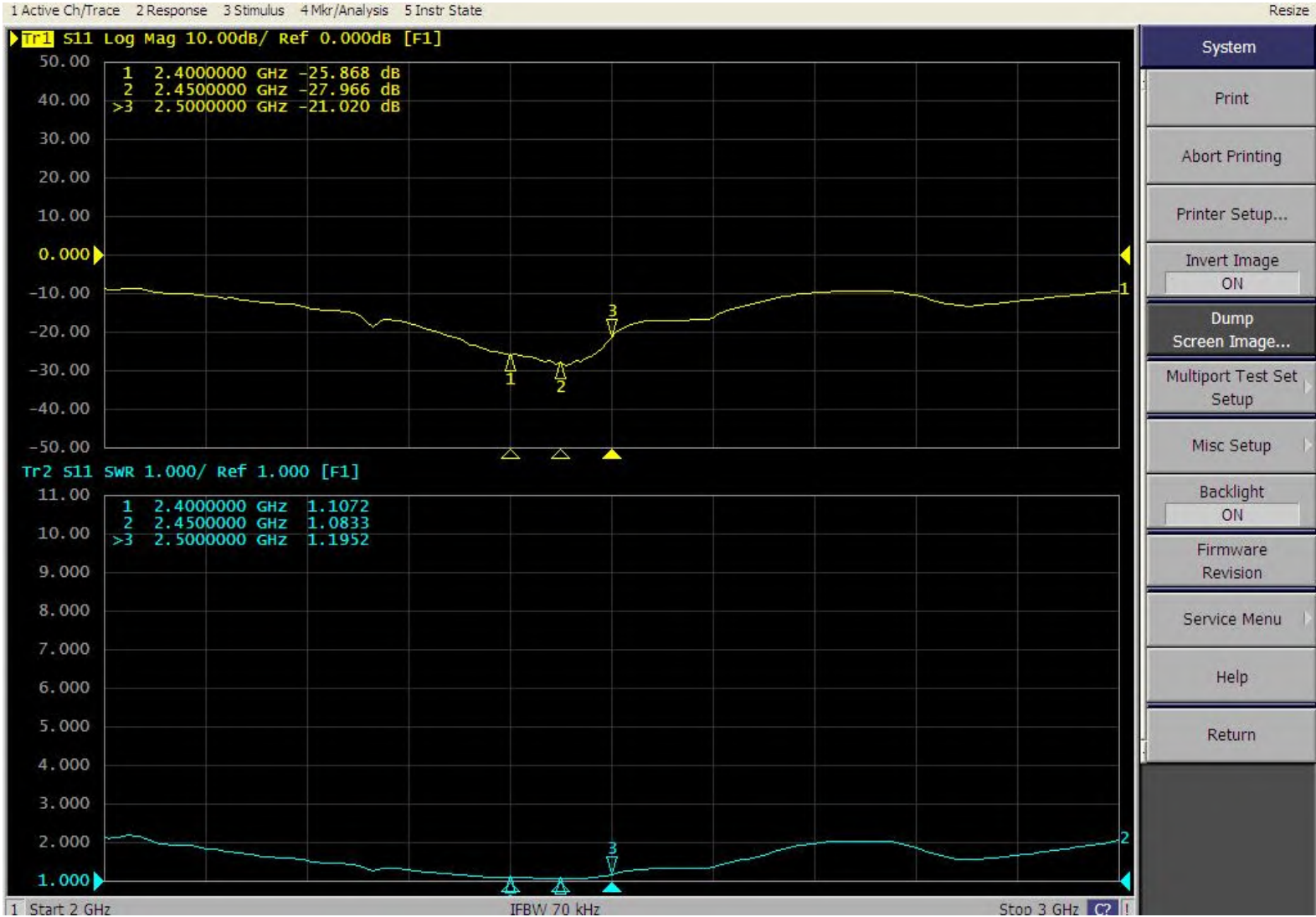
天线规格图片（Antenna Specification Chart）

◆ 天线规格图片（Antenna Specification Chart）



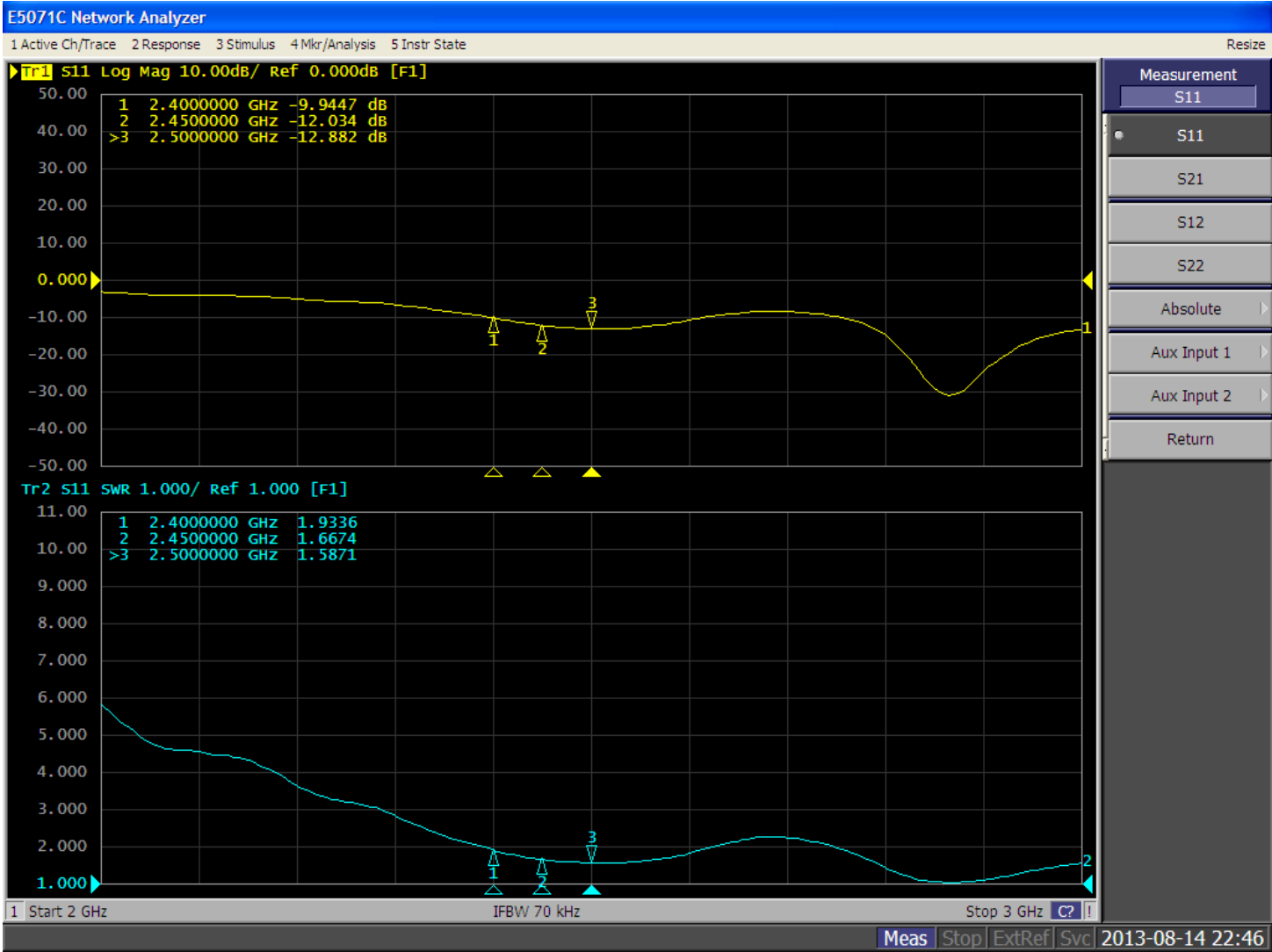
无源S11 (Passive S11)

◆ 无源S11 (Passive S11)

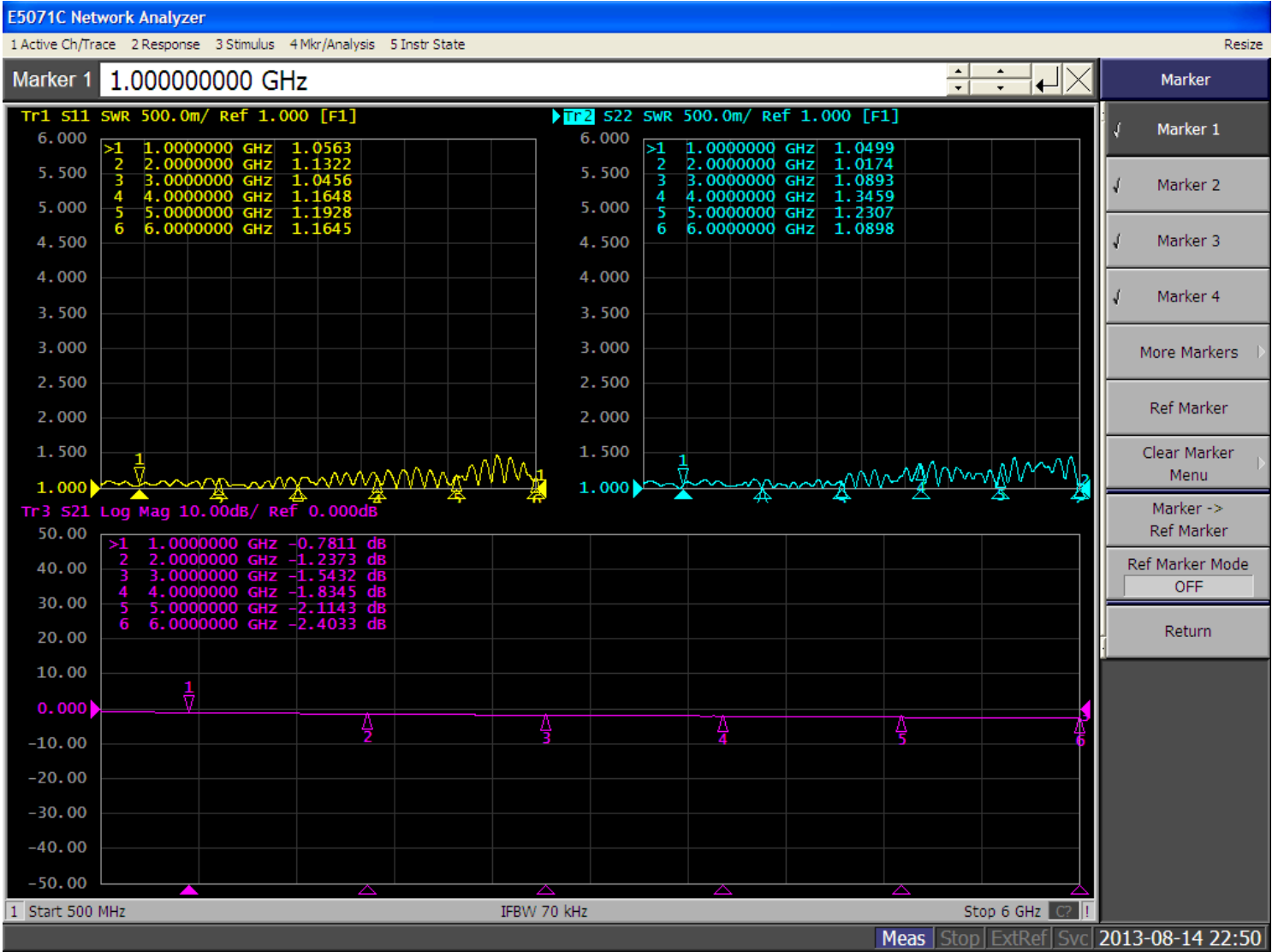


Frequency (MHz)	2400	2450	2500
return loss	-25.86	-27.97	-21.02
VSWR	1.1	1.08	1.19

◆ 单体天线性能测试 (S11)



◆ 线损测试 Line loss test



无源效率、增益测试报告 (Passive efficiency and gain test report)

◆ 无源效率、增益测试报告 (Passive efficiency and gain test report)

Frequency / MHz		
	Efficiency / %	Gain/ dBi
2400	55.08	4.33
2410	53.83	4.26
2420	53.21	4.31
2430	50.93	4.27
2440	52.97	4.28
2450	52.72	4.16
2460	52.29	4.17
2470	52.05	4.23
2480	52.23	4.18
2490	51.2	4.01
2500	50.31	3.96

驻波比、回波损耗测试报告（VSWR and Return loss test report）

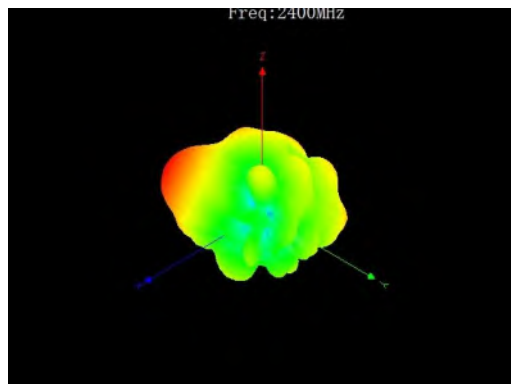
◆ VSWR、Return loss （Passive efficiency and gain test report）

Frequency / MHz		
	Return loss	VSWR
2400	-25.86	1.1
2450	-27.97	1.08
2500	-21.02	1.19

辐射方向图 (Radiation pattern)

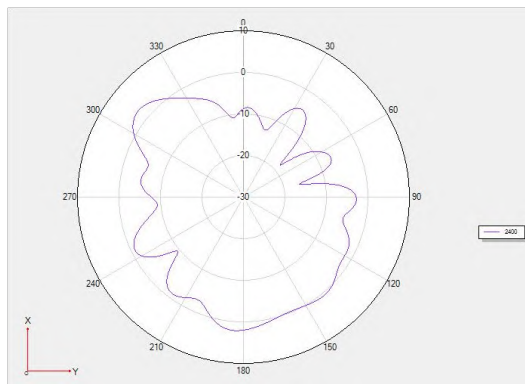
◆ 辐射方向图 (Radiation pattern)

3D

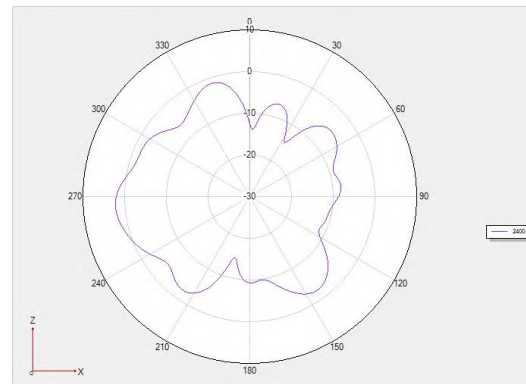


2400MHz

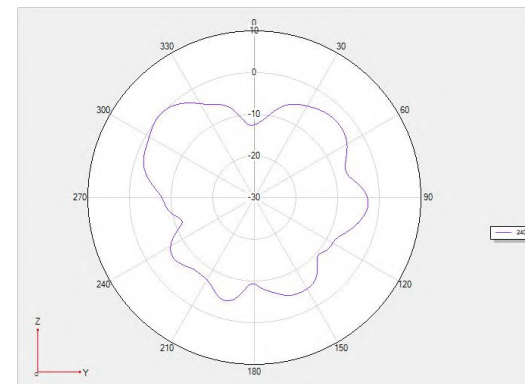
XY



ZX



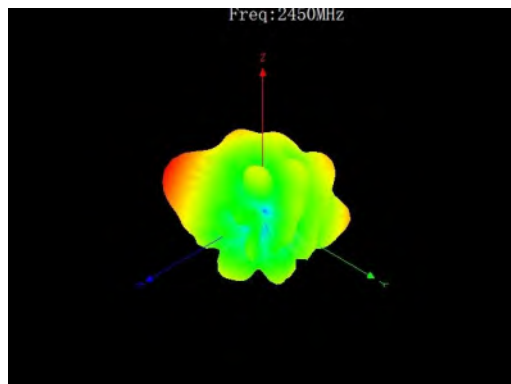
ZY



辐射方向图 (Radiation pattern)

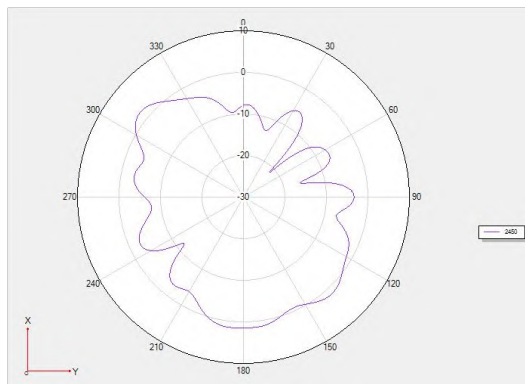
◆ 辐射方向图 (Radiation pattern)

3D

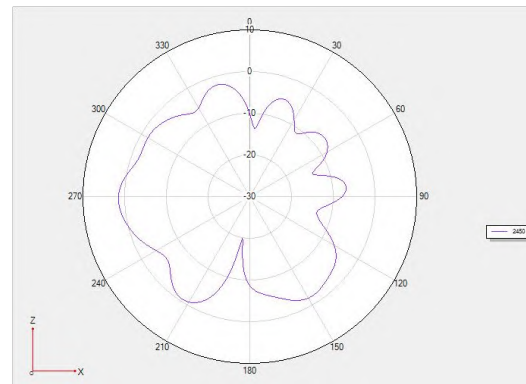


2450MHz

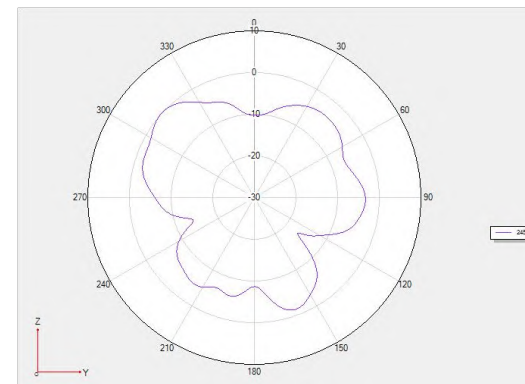
XY



ZX



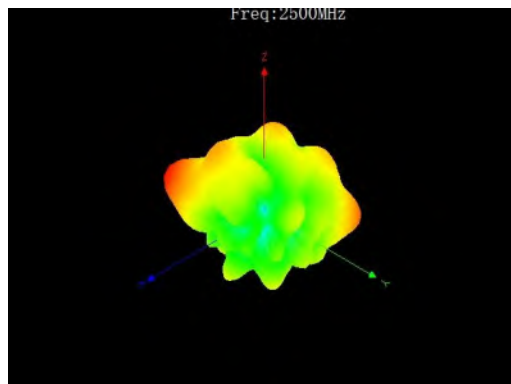
ZY



辐射方向图 (Radiation pattern)

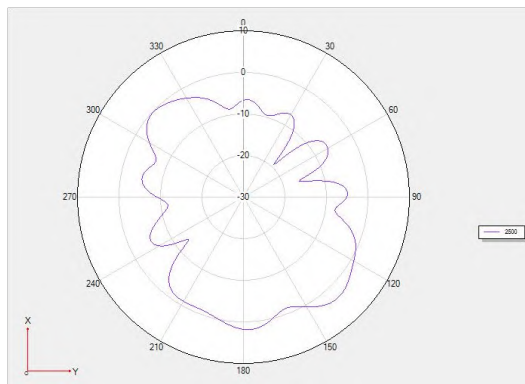
◆ 辐射方向图 (Radiation pattern)

3D

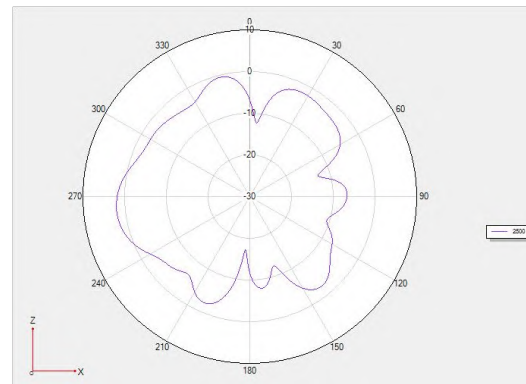


2500MHz

XY



ZX



ZY

